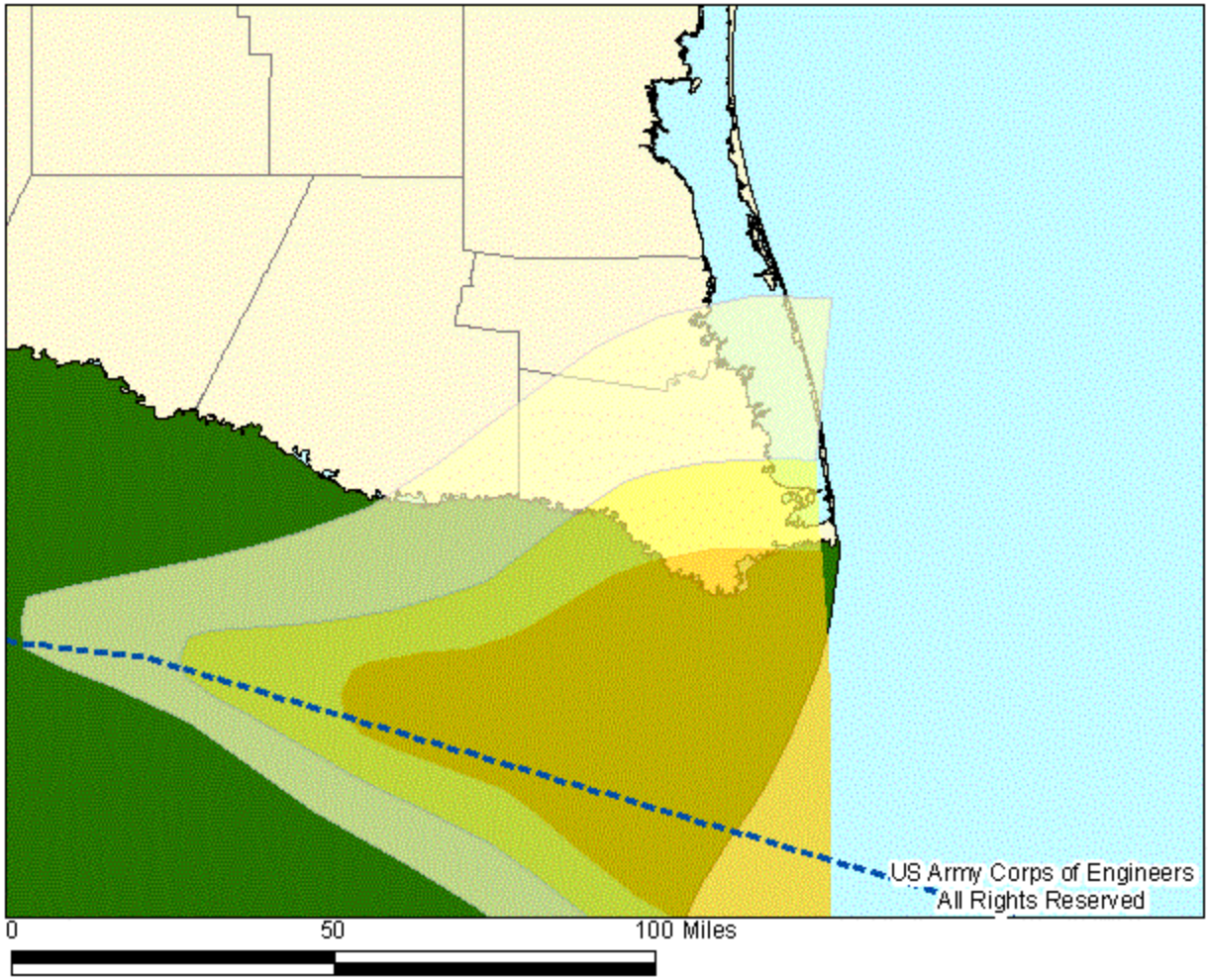
US Army Corps of Engineers

Hurricane Alex Projected Damage Areas

Landfall Expected In About 37 Hours

For Planning Purposes Only!



Post Landfall Projected Damage Areas

This model is based on a Category 2 storm making landfall south of Brownsville, TX.

Forecast Track

Projected Damage Areas

- CAT 0-type damage
- CAT 1-type damage
- CAT 2-type damage
- CAT 3-type damage
- CAT 4-type damage
- CAT 5-type damage

Information provided on this page displays a projected or actual Category 2 storm making landfall south of Brownsville, TX. These projections are based on information from the NHC (1100 EDT 06/29/2010) forecast and extrapolated by LRL staff to represent a landfall condition that has either occurred or may occur in the near future.

Details about this model may be obtained at http://www.englink.usace.army.mil or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

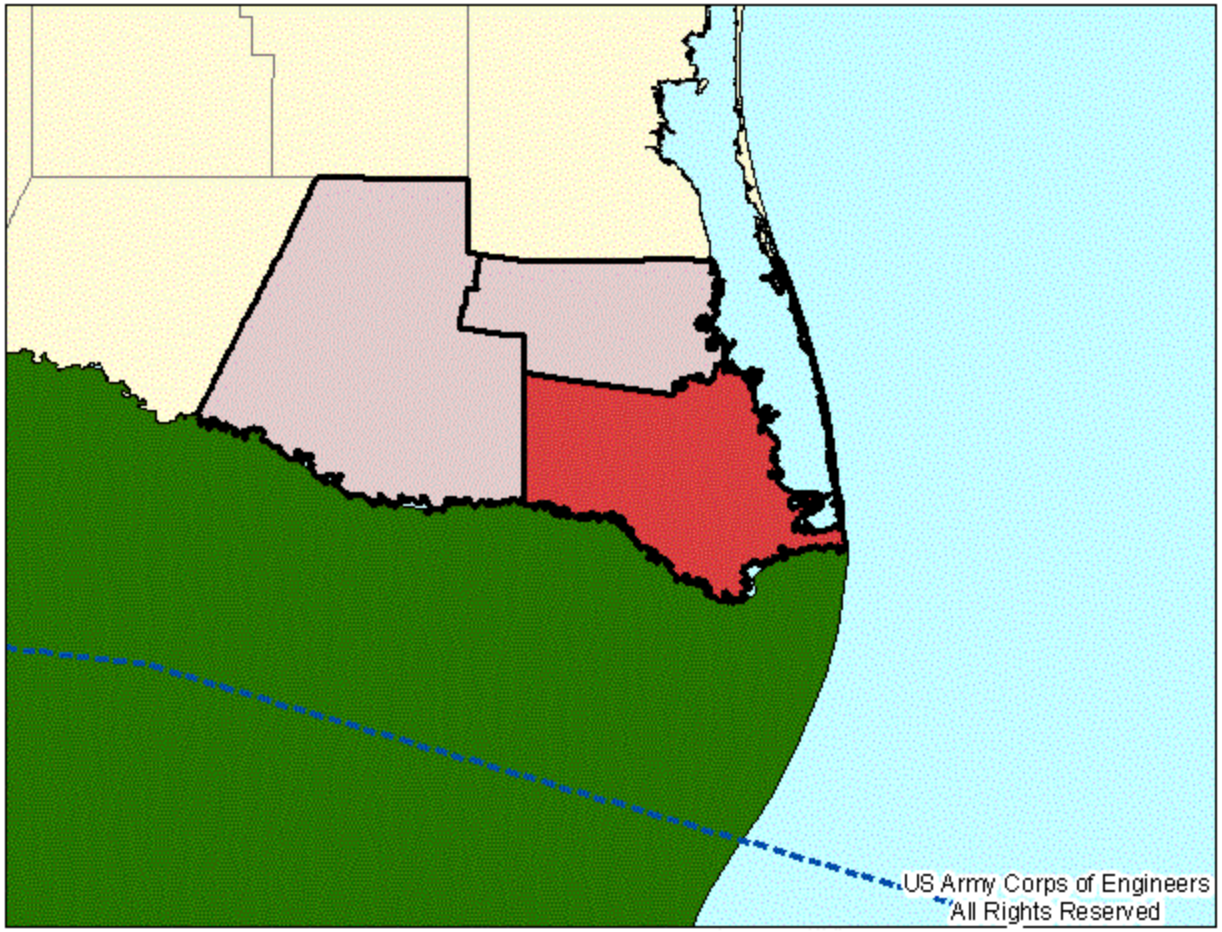
Hurricane Alex Projected Damage Areas	
Generated By: Siemsen, LRL 1115 EDT 06/29/2010	
Sources: HURREVAC LRL-DEBRIS	Page 1 of 13

US Army Corps of Engineers

Hurricane Alex Debris Model

Landfall Expected In About **37** Hours

For Planning Purposes Only!



Post Landfall Debris Model Results

Texas - 875,000 Yards

Model results per County on following page

This model is based on a Category 2 storm making landfall south of Brownsville, TX.

Forecast Track

Debris

- < 100,000 cubic yards
- 100,000 - 249,999 cubic yards
- 250,000 - 499,999 cubic yards
- 500,000 - 999,999 cubic yards
- >1,000,000 cubic yards

Information provided on this page displays a Category 2 storm making landfall south of Brownsville, TX. These projections are based on information from the NHC (1100 EDT 06/29/2010) forecast. The amount of debris forecasted is possible total volume, not necessarily the volume that may need to be removed with Federal funds, but does not include volume that may be covered by private insurance. Debris volume may include storm surge generated debris.

Details about this model may be obtained at http://www.englink.usace.army.mil or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

Hurricane Alex Debris Model	
Generated By: Siemsen, LRL 1115 EDT 06/29/2010	
Sources: HURREVAC LRL-DEBRIS	Page 2 of 13

US Army Corps of Engineers

Hurricane Alex Debris Model

Landfall Expected In About 37 Hours

For Planning Purposes Only!

State	Yards per State	County	Yards per County
Texas		Cameron County	792,000
		Hidalgo County	79,000
		Willacy County	4,000
Texas	875,000		

The amount of debris forecasted is possible total volume, not necessarily the volume that may need to be removed with Federal funds, but does not include volume that may be covered by private insurance. Debris volume may include storm surge generated debris.

Details about this model may be obtained at http://www.englink.usace.army.mil
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Hurricane Alex Debris Model

Generated By:
Siemsen, LRL 1115 EDT 06/29/2010

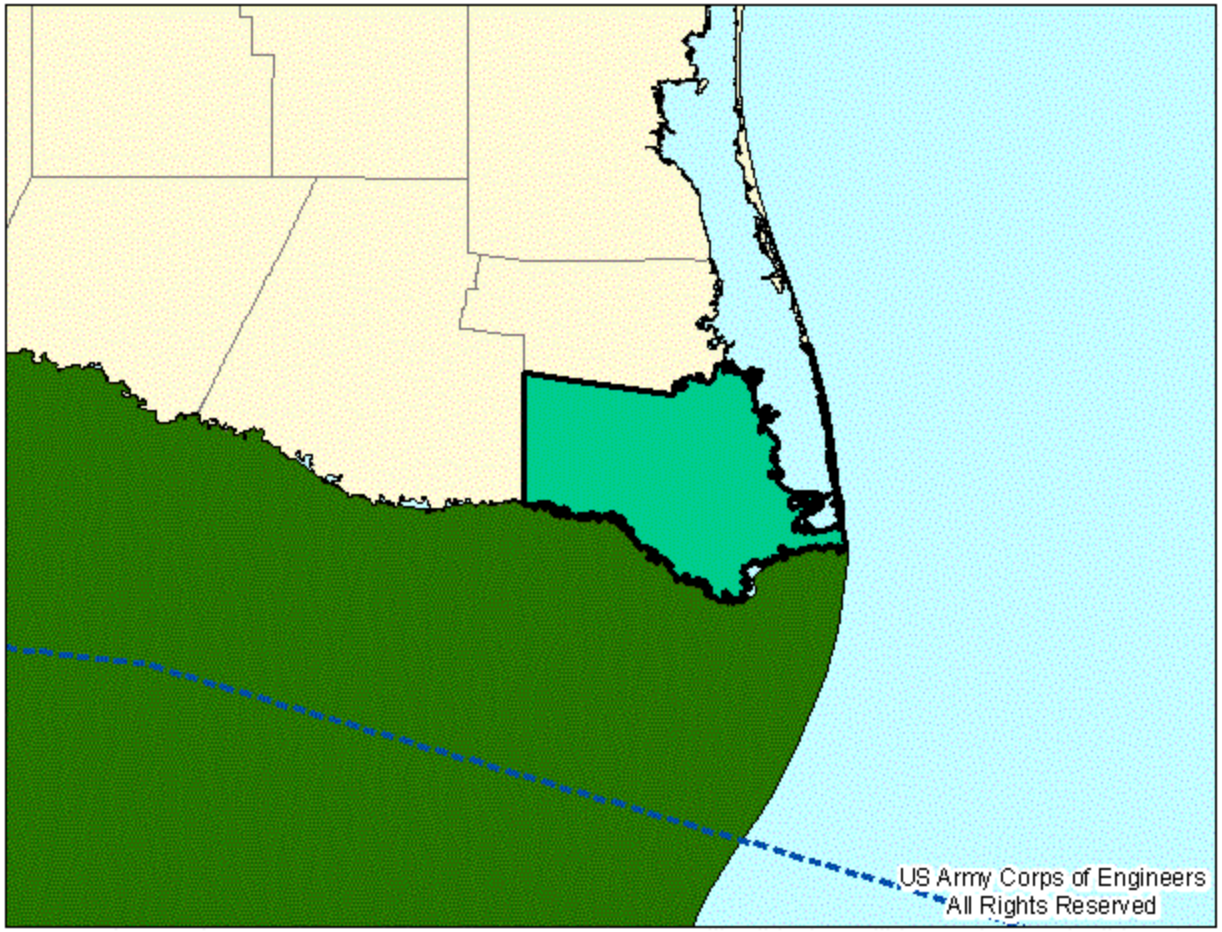
Sources:
HURREVAC
LRL-DEBRIS

US Army Corps of Engineers

Hurricane Alex Commodities Model

Landfall Expected In About **37** Hours

For Planning Purposes Only!



Post Landfall Water Model Results

Day One / Day Two / Day Three
Texas – 4/7/14 Truckloads

Model results per County on following page

This model is based on a Category 2 storm making landfall south of Brownsville, TX.

Forecast Track

Commodities

- < 5 Trucks Each
- 5 - 10 Trucks Each
- 11 - 20 Trucks Each
- 21 - 40 Trucks Each
- > 40 Trucks Each

Information provided on this page displays a Category 2 storm making landfall south of Brownsville, TX. These projections are based on information from the NHC ***(1100 EDT 06/29/2010)*** forecast. The amount of commodities forecasted is based on Mission Guide Book requirements and SME input. The graphic represents daily needs with a ramp-up in the distribution system – three days for Points of Distribution (PODs) to be fully in place and operational. Volume shown is for each commodity – water and ice. Commodity need may be supplied by multiple agencies and/or sources.

Details about this model may be obtained at http://www.englink.usace.army.mil
or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

Hurricane Alex Commodities Model	
Generated By: Siemsen, LRL 1115 EDT 06/29/2010	
Sources: HURREVAC LRL-DEBRIS	Page 4 of 13

US Army Corps of Engineers

Hurricane Alex Commodities Model

Landfall Expected In About **37** Hours

For Planning Purposes Only!

State	Truckloads per State	County	Truckloads per County
Texas		Cameron County	14
Texas	14		

Source: US Army Corps of Engineers, All Rights Reserved

The amount of commodities forecasted is based on Mission Guide Book requirements and SME input and the above table indicates suggested daily needs based on full deployment of a commodities distribution system. Volume shown is for each commodity – water and ice. Commodity need may be supplied by multiple agencies and/or sources.

Details about this model may be obtained at http://www.englink.usace.army.mil
or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

Hurricane Alex Commodities Model

Generated By:
Siemsen, LRL 1115 EDT 06/29/2010

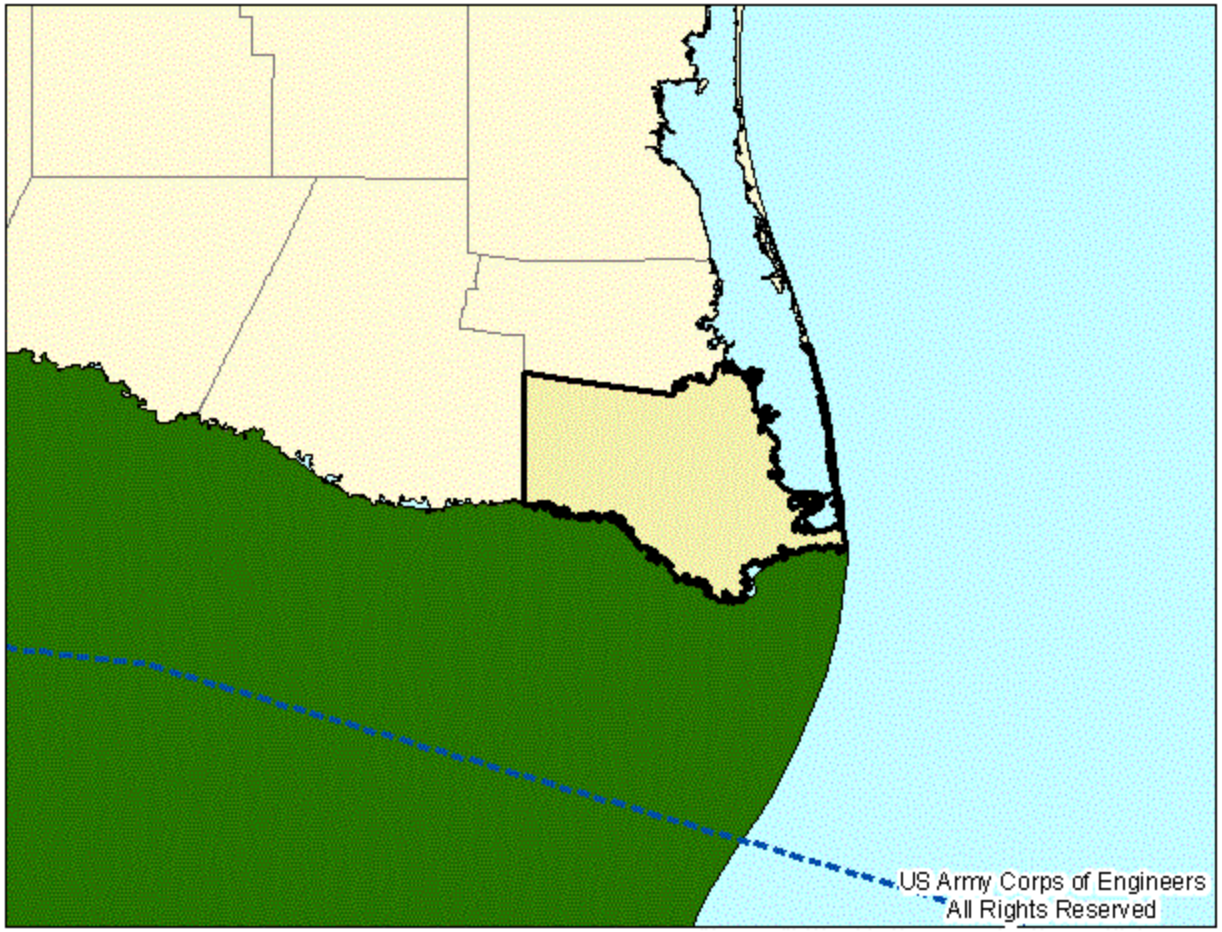
Sources:
HURREVAC
LRL-DEBRIS

US Army Corps of Engineers

Hurricane Alex Temporary Roofing Model

Landfall Expected In About 37 Hours

For Planning Purposes Only!



Post Landfall Temporary Roofing Model Results

Texas - 1,800

Model results per County on following page

This model is based on a Category 2 storm making landfall south of Brownsville, TX.

Forecast Track

Temporary Roofing

- < 2,000 units
- 2,000 - 3,999 units
- 4,000 - 5,999 units
- 6,000 - 9,999 units
- > 10,000 units

Information provided on this page displays a Category 2 storm making landfall south of Brownsville,TX. These projections are based on information from the NHC (1100 EDT 06/29/2010) forecast. Temporary roofing is based on 2% in CAT 1 and 5% in CAT 2.

Details about this model may be obtained at http://www.englink.usace.army.mil or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

Hurricane Alex Roofing Model	
Generated By: Siemsen, LRL 1115 EDT 06/29/2010	
Sources: HURREVAC LRL-DEBRIS	Page 6 of 13

US Army Corps of Engineers

Hurricane Alex Temporary Roofing Model

Landfall Expected In About 37 Hours

For Planning Purposes Only!

State	House Units per State	County	House Units per County
Texas		Cameron County	1,800
Texas	1,800		

Temporary roofing is based on 2% in CAT 1 and 5% in CAT 2.

Details about this model may be obtained at http://www.englink.usace.army.mil
or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

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Hurricane Alex Roofing Model

Generated By:
Siemsen, LRL 1115 EDT 06/29/2010

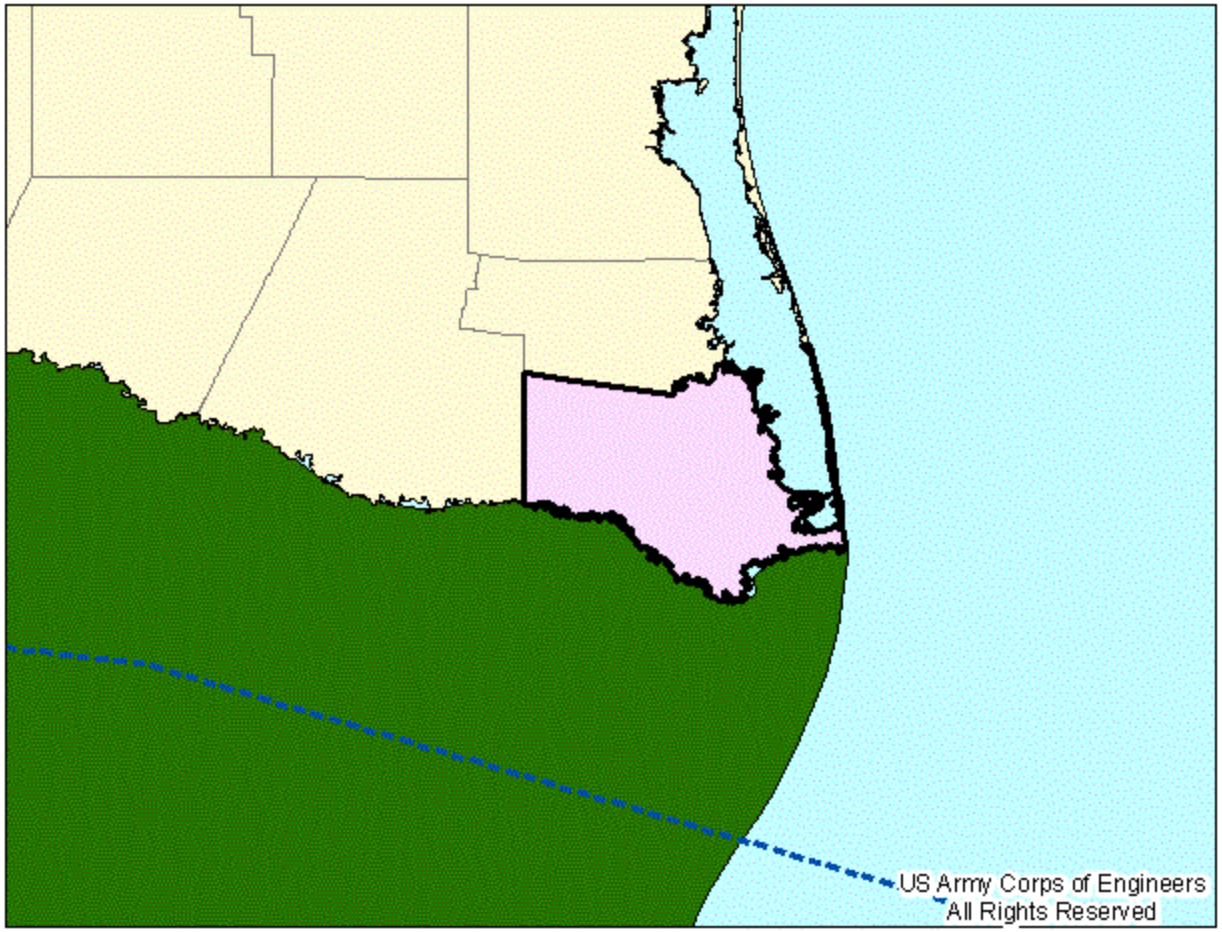
Sources:
HURREVAC
LRL-DEBRIS

US Army Corps of Engineers

Hurricane Alex Temporary Housing Model

Landfall Expected In About 37 Hours

For Planning Purposes Only!



Post Landfall Temporary Housing Model Results

Housing < 100 units

Model results per County on following page

This model is based on a Category 2 storm making landfall south of Brownsville, TX.

Forecast Track

Temporary Housing

- < 2,000 units
- 2,000 - 3,999 units
- 4,000 - 5,999 units
- 6,000 - 9,999 units
- > 10,000 units

Information provided on this page displays a Category 2 storm making landfall south of Brownsville,TX. These projections are based on information from the NHC (1100 EDT 06/29/2010) forecast. Temporary housing is based on 0.5% in CAT 2. The number indicated represents a possible need but not necessarily the scope of mission for USACE.

Details about this model may be obtained at http://www.englink.usace.army.mil or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

Hurricane Alex Housing Model	
Generated By: Siemsen, LRL 1115 EDT 06/29/2010	
Sources: HURREVAC LRL-DEBRIS	Page 8 of 13

US Army Corps of Engineers

Hurricane Alex Temporary Housing Model

Landfall Expected In About 37 Hours

For Planning Purposes Only!

State	House Units per State	County	House Units per County
Texas		Cameron County	< 100
Texas			

Temporary housing is based on 0.5% in CAT 2.
The number indicated represents a possible need but not necessarily the scope of mission for USACE.

Details about this model may be obtained at http://www.englink.usace.army.mil
or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

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Hurricane Alex Housing Model

Generated By:
Siemsen, LRL 1115 EDT 06/29/2010

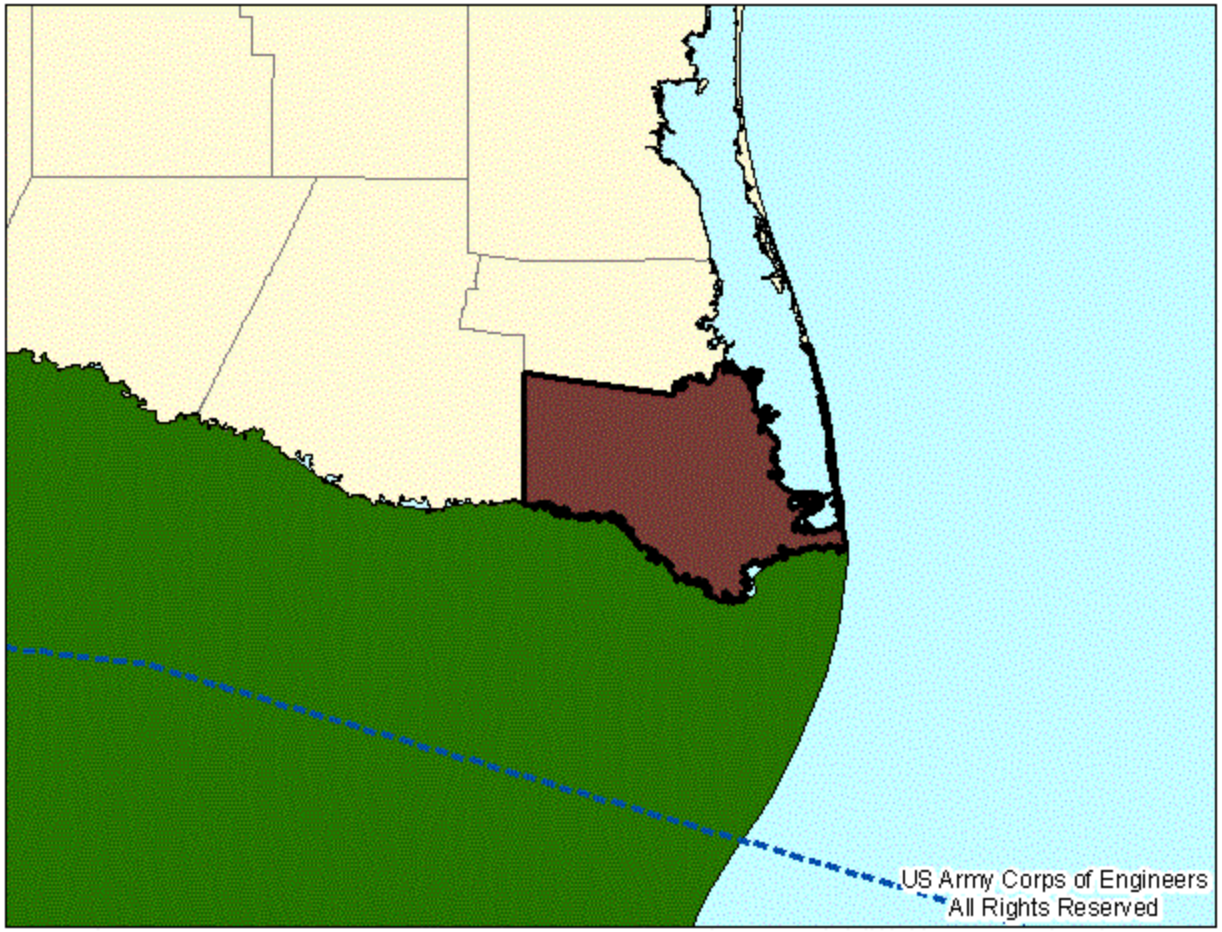
Sources:
HURREVAC
LRL-DEBRIS

US Army Corps of Engineers

Hurricane Alex Population Model

Landfall Expected In About **37** Hours

For Planning Purposes Only!



Post Landfall Population Model Results

Texas - 223,000

Model results per County on following page

This model is based on a Category 2 storm making landfall south of Brownsville, TX.

Forecast Track

Population

- < 25,000 persons
- 25,000 - 99,999 persons
- 100,000 - 174,999 persons
- 175,000 - 249,999 persons
- > 250,000 persons

Information provided on this page displays a Category 2 storm making landfall south of Brownsville,TX. These projections are based on information from the NHC (1100 EDT 06/29/2010) forecast. The numbers of persons included in this model output are those that would be included within estimated hurricane force winds (Census 2000 values adjusted to July 2008 values).

Details about this model may be obtained at http://www.englink.usace.army.mil or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

Hurricane Alex Population Model	
Generated By: Siemsen, LRL 1115 EDT 06/29/2010	
Sources: HURREVAC LRL-DEBRIS	

US Army Corps of Engineers

Hurricane Alex Population Model

Landfall Expected In About 37 Hours

For Planning Purposes Only!

State	Population per State	County	Population per County
Texas		Cameron County	223,000
Texas	223,000		

The number of persons estimated to be within the hurricane force winds comes from Census 2000 values adjusted to July 2008 values.

Details about this model may be obtained at http://www.englink.usace.army.mil
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Hurricane Alex Population Model

Generated By:
Siemsen, LRL 1115 EDT 06/29/2010

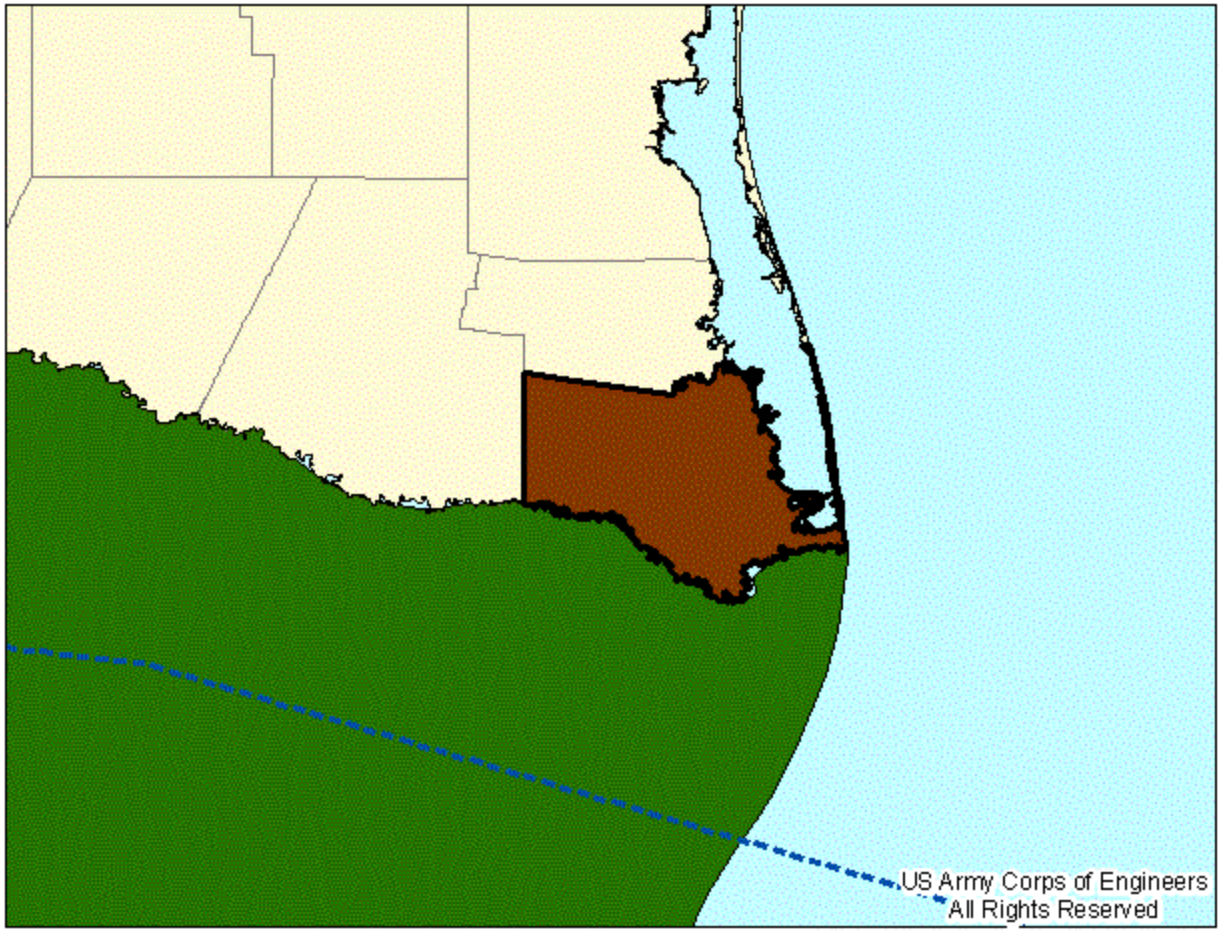
Sources:
HURREVAC
LRL-DEBRIS

US Army Corps of Engineers

Hurricane Alex Households Model

Landfall Expected In About **37** Hours

For Planning Purposes Only!



0 50 100 Miles

Post Landfall Households Model Results

Texas - 61,000

Model results per County on following page

This model is based on a Category 2 storm making landfall south of Brownsville, TX.

Forecast Track

Households

- < 7,500 households
- 7,500 - 14,999 households
- 15,000 - 24,999 households
- 25,000 - 49,999 households
- > 50000 households

Information provided on this page displays a Category 2 storm making landfall south of Brownsville,TX. These projections are based on information from the NHC (1100 EDT 06/29/2010) forecast. The numbers of households included in this model output are those that would be included within estimated hurricane force winds (Census 2000 values adjusted to July 2008 values).

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Hurricane Alex Households Model	
Generated By: Siemsen, LRL 1115 EDT 06/29/2010	
Sources: HURREVAC LRL-DEBRIS	

US Army Corps of Engineers

Hurricane Alex Households Model

Landfall Expected In About **37** Hours

For Planning Purposes Only!

State	Households per State	County	Households per County
Texas		Cameron County	61,000
Texas	61,000		

The number of households estimated to be within the hurricane force winds comes from Census 2000 values adjusted to July 2008 values.

Details about this model may be obtained at http://www.englink.usace.army.mil
or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

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Hurricane Alex Households Model

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Sources:
HURREVAC
LRL-DEBRIS